THE INSTITUTE OF PHYSICS
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BULLETIN

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CONTRIBUTIONS FROM MEMBERS

The Technische Hochschule in Vienna

Following Dr. Topping's interesting picture of the E.T.H., Zurich, in the November issue of the Bulletin, members of the Institute might like to know something about a similar institution, the Technische Hochschule in Vienna, where I studied Technical Physics from 1929 to 1934. I must say at the outset that I can only speak of it as it was before the war as I have no knowledge of any changes introduced since.

The Technische Hochschule was divided into five "faculties," architecture, civil engineering, engineering, chemistry, and "applied mathematics and physics"; some faculties were split into divisions, engineering into mechanical and electrical engineering, chemistry into technical chemistry and fuel engineering. The faculty of applied mathematics and physics consisted of three independent divisions, technical physics, surveying, and actuarial mathematics (in which there was a two years' course). The course of studies was rigidly laid down, but in the last year students were encouraged to attend some "lectures of choice" and to specialize in some particular branch; for example, civil engineers might choose road or bridge building or tunnelling, electrical engineers telecommunications and so on. The total number of students exceeded 3 000 in my time.

The milestones in one's study were the first and second state examinations; the first was taken half way during the course, the second was the degree examination and concluded for most students their studies: the successful candidate obtained the degree *ingenieur* ("Ing."). Further research, presentation of a thesis and success in a "rigorous examination" conferred the degree of a doctor of the technical sciences ("Dr. techn."), but not more than 10 per cent of the students proceeded to take it.

Attendance at lectures was voluntary, but was compulsory at practical classes such as drawing and laboratories. At the end of the year, or at any later time when he felt fit for it, the student had to take in every subject a "single examination." These were conducted, publicly, by the professor who gave the lectures, and it was necessary to pass in all prescribed subjects before one could present oneself for the state examination.

The curriculum in technical physics provided a thorough grounding in all theoretical subjects, but included a fair number of subjects of a technical nature. The subjects of the first state examination were mathematics, mechanics, optics, heat, theory of electricity and electrotechnics. The student also had to provide proof of previous success, before being admitted to the first state examination, in elementary constructional drawing, descriptive geometry, physics laboratory 1, and workshop practice—this meant attending the workshop for thirty 7-hour exercises. The second half of the physics student's study differed from that of all others in that there were only few compulsory subjects, and he was expected to specialize in some particular branch of physics of his own choice, though the choice was somewhat limited by the facilities available; favourite choices were electronics, electro-acoustics or optics. Considerable time was devoted to laboratory work, culminating in a three months' research programme, which was part of the second state examination. The subjects of the second state examination were theoretical, experimental, and technical physics and the special branch chosen. Additional requirements were previous success in inorganic chemistry, mechanical technology, techniques of electrical measurements, electrotechnical laboratory and also in a short course in patent law.

The minimum time prescribed for the course was four years, but due to the latitude allowed in taking the "single examinations" it was not unusual to exceed it by a year or two. The number of students admitted yearly to technical physics was limited to twenty; in the first two years we shared lectures and exercises with the mechanical and electrical engineers, numbering 300, so that there was hardly any personal contact with the staff, but afterwards, due to the small numbers, the lectures had a much more intimate character, and, as at Zurich, there were colloquia and seminars. There were also lectures of a general character, such as languages—I learnt my English there from an Aberdonian—and political and legal subjects.

Facilities for research were offered by most departments, especially in chemistry and physics. These were the only departments that had contact with the university, and lectures and exercises attended at either were accepted by the other. This serves also as evidence that the standard offered by the Technische Hochschule was as high as that of the university.

The Technische Hochschule consisted of a main building and several later additions. The main building was every bit as dark, depressing and out of date as some of the older English universities, but the later additions were much more modern, better equipped both for lecturing and practical work, and the comfort of both staff and students was not altogether ignored in their design.

Finally, I should like to point out that whatever lessons might be learnt from the organization of the Technische Hochschule which are relevant to the problem of higher technical education in this country, one must bear in mind that some of the differences between it and an English university might well be due to the different aim of education in this country and Central Europe.

H. TOMPA.

THE REGISTER

ELECTIONS TO MEMBERSHIP

An asterisk (*) indicates transfer from another grade.

Fellows

Jones, Elwyn, M.Sc., Assistant Research Manager, Imperial Chemical Industries Ltd. (Nobel Division), Stevenston.
*Roberts, Norman Frederick, M.Sc., Officer-in-charge, Fleece Analysis Laboratory, Commonwealth Scientific and Industrial Research Organization, Australia.
Trout, E. Dale, B.A., D.Sc., Technical Adviser, General Electric X-Ray Corporation, Wisconsin, U.S.A.

Associates

Archard, Geoffrey Dennis, B.Sc., Research Student, University of Reading.
Bain, Robert W., M.A., Scientific Officer, Royal Aircraft Establishment, Farnborough, Hampshire.
Bastin, Albert George, M.A., B.Sc., Headmaster, Brixton School of Building.
*Bryant, Frederick, B.Sc., Laboratory Manager, Prestige Ltd., Australia.
*Duerdoth, Arnold Godfrey, B.Sc., A.R.C.S., Process Physicist, Ship Carbon Co. Ltd., Chadwell Heath, Essex.
Gay, Oliver Charles, B.Sc., Head of Physics Department, Hull Municipal Technical College.
Geddes, Samuel, M.A., B.Sc., Head of Mathematics and Physics Department, Coatbridge Technical College.
Hodgson, John Bateson, B.Sc., Senior Assistant in Physics, Bournemouth Municipal College.
Lee, Peter Arthur, B.Sc., Research Fellow, University of British Columbia, Canada.
Lucas, Douglas Harold, B.A., Physicist, British Electricity Authority, Leatherhead, Surrey.
Menzies, James Mackay, M.A., B.Sc., Principal Science Master, Rutherglen Academy, Lanarkshire.
*Parker, Robert, B.Sc., Assistant Lecturer in Physics, University of Nottingham.
Pennington, Arthur, B.Sc., M.Ed., Senior Physics Master, Dame Allan's School, Newcastle-upon-Tyne.
Qurashi, Mazhar Mahmood, M.Sc., Ph.D. Research Physicist, Manchester College of Technology.
Shaw, Edgar Albert George, B.Sc., A.R.C.S., Research Physicist, National Research Council, Ottawa, Canada.
Slimming, David Watson, M.A., Officer-in-charge, Scottish Branch, Fuel Research Organization.
Sterry, Frank, M.A., Senior Scientific Officer, Atomic Energy Research Establishment, Harwell.
Thomas, Thevarthundyil Benjamin, B.Sc., Demonstrator in Physics, King's College, Newcastle-upon-Tyne.

Graduates

Aston, Alan John, B.Sc., Research Physicist, Dunlop Rubber Co. Ltd., Birmingham.
Atkinson, William Hugh, B.A., Physicist, Research Laboratories, Kodak Ltd., Harrow, Middlesex.
Bassett, George Alan, B.Sc., Experimental Assistant, Research Laboratories of the General Electric Co. Ltd., Wembley, Middlesex.
Cartledge, Thomas, B.Sc., Tutorial Student, Physics Department, King's College, Newcastle-upon-Tyne.
Chappel, Frank Patrick, B.Sc., Research Student University College, Swansea.
Cooper, Michael, B.Sc., Experimental Assistant, Research Laboratories of the General Electric Co. Ltd., Wembley, Middlesex.
Crawshaw, John Kenneth, B.Sc., Research Student in Physics, University of Manchester.
Daniels, Brian Vernon, B.Sc., Teacher of Physics and Mathematics, Stockport Education Committee.
Dawson, Kenneth Charles, B.Sc., Research Physicist, Dunlop Rubber Co. Ltd., Birmingham.
Dorman, Richard George, B.Sc., A.R.C.S., Experimental Officer, National Institute of Agricultural Engineering, Bedfordshire.
*Evans, Glyn, B.Sc., Teachers Training, Education Department, University College, Swansea.
*Gray, Alan, B.Sc., Technical Officer, Wool Textile Research Laboratories, Commonwealth Scientific and Industrial Research Organization, Australia.
*Hartrodt, Robert Leonard Charles, B.Sc., Assistant Experimental Officer, Royal Aircraft Establishment, Farnborough, Hampshire.
Horsley, Robert Alfred, B.Sc., Research Physicist, B.X. Plastics Ltd., Manningtree.
Kauffmann, Bernhard, B.Sc., Experimental Officer, Post Office Research Station, London.
Knight, Geoffrey, B.Sc., Assistant Research Laboratory, Kodak Ltd., Harrow, Middlesex.
Laycock, Geoffrey Hugh, B.Sc., Crompton Parkinson Ltd.
Lovejoy, Derek Roxbee, B.Sc., A.R.C.S., Scientific Officer, Ministry of Supply.
*Major, Gershom, B.Sc., Radiophysics Officer, Department of External Affairs, Antarctic Division, Commonwealth Scientific and Industrial Research Organization, Australia.
*McGill, Robert James, B.Sc., Physicist, Alex Pirie and Sons Ltd., Aberdeenshire.
Mee, Charles Denis, B.Sc., Research Physicist, Steel Co. of Wales.
*Merry, Kenneth Victor, B.Sc., Research Physicist, Rola Co. Pty. Ltd., Australia.
Morris, Gwynfryn John, B.Sc., Research Assistant, British Nylon Spinners, Pontypool, Monmouthshire.
*Morton, Frank Donald, B.Sc., Research Student, University of Manchester.
Reay, William Wilkin, M.Sc., Scientific Officer, Royal Naval Scientific Service, Admiralty Research Laboratory, Teddington, Middlesex.
Reid, Norman, B.Sc., Research Physicist, Babcock and Wilcox Ltd., Renfrew.
*Robinson, Edward Trevor, B.Sc., Research Student, University of Western Australia.
Sharman, Roy Victor, B.Sc., Lecturer in Mathematics and Physics, Chiswick Polytechnic, London.
Sugarman, Cyril, B.A., Research Physicist Kodak Ltd., Harrow, Middlesex.
Thompson, Lionel Raymond, B.Sc., Technical Assistant, Department of Atomic Energy, Ministry of Supply, Preston.
Treasure, Charles Robert George, B.Sc., Scientific Officer, Research Council, British Whiting Federation.

Subscribers

Farr, Elizabeth, Principal Teacher of Science, Glasgow.
Johnston, John McKillop, Babcock and Wilcox Ltd., Renfrew.
Logan, Robert, Schoolmaster, Glasgow Education Committee.
MacDonald, Forrest, Glasgow Wireless College.
Malton, William Herbert, Thos. Firth and John Brown Ltd., Sheffield.
McHattie, Ian, Western Infirmary, Glasgow.
Perutz, Max Ferdinand, Cavendish Laboratory, Cambridge.
Rait, Margaret F., Govan Senior Secondary School.
Sayer, Lawrence John, Royal Naval Scientific Service.
Smith, George Douglas, Western Infirmary, Glasgow.
Stewart, Thomas Gilmour, Schoolmaster.
Sully, Bernard Thomas Dudley, A. Boake, Roberts and Co. Ltd., London.
Vangeen, Abraham Isidore, Edison Swan Electric Co. Ltd., Brimsdowne.
Wallace, Edward, St. Mungo's Senior Secondary School, Glasgow.
Williamson, George Kingsley, University of Birmingham.
Wilson, Edith J., Govan Secondary School.

Students

Ambross, K., Northern Polytechnic, London.
Avis, M. C., University College, London.
Bicknell, R. W., Battersea Polytechnic, London.
Blades, E. M., University of Glasgow.
Bowen, J. D., University College of Swansea.
Cayzer, M. J., Acton Technical College, London.
Close, K. J., The Polytechnic, Regent Street.
Collins, A. J., University of Glasgow.
Coyle, R. A., Melbourne Technical College, Australia.
Crossley, G. G., University of Manchester.
Fairman, R., University of Glasgow.
Freemantle, R. G., University College, Southampton.
Furneaux, D., University College of Swansea.
Goudie, D. P., University of Glasgow.
Gould, R. C., The Polytechnic, Regent Street, London.
Griffiths, J. U., University College of Swansea.
Griffiths, P. J. F., University College, Cardiff.
Gross, G. H., Battersea Polytechnic, London.
Gross, K. A., Melbourne Technical College, Australia.
Harris, G. T., University College of Swansea.
Horler, D. L., University College of Swansea.
Hughes, I. S., University of Glasgow.
Jones, D. G. H., South-East London Technical College.
Jordan, S. H., University College of Swansea.
Lewis, C. B., University College of Swansea.
MacLean, C., University of Glasgow.
MacLeod, I. D., University of Glasgow.
Marston, N. V., University College of Swansea.
McChesney, M., University of Glasgow.
Milligan, W., University of Glasgow.
Muff, P., University of Manchester.
Orr, J. S., University of Glasgow.
Orr, N. M., University of Glasgow.
Parkman, N., University College of Swansea.
Possener, M. N. A., University of Manchester.
Reilly, H. M., University College of Swansea.
Richards, H. J., University College of Swansea.
Rooney, E., University of Glasgow.
Rosenbaum, D. S., Acton Technical College, London.
Selvin, J. T., Bradford Technical College.
Sherrard-Smith, K. I., University of Glasgow.
Smith, A. R., University of Glasgow.
Troughton, A. G., Woolwich Polytechnic, London.
Turner, S., King's College, Newcastle-upon-Tyne.
Williams, C. R., Royal Technical College, Salford.
Williams, T. A., University College of Swansea.
Yates, K., South-West Essex Technical College.

Deceased

Fellows—E. Mallett, J. S. Van der Lingen.
Associates—M. T. Denne, I. Waddle.
Subscriber—A. S. Lippmann.

APPOINTMENTS VACANT

The inclusion of particulars of a vacancy must not be taken to imply that the Institute necessarily approves of the terms offered or that might be offered. Candidates should satisfy themselves that these are satisfactory, and they may always refer to the Institute for advice.

Research Assistants: two required for Nuclear Physics Section. Applicants with Higher National Certificate, or equivalent, in Applied Physics, Mechanical, or Electrical Engineering preferred.

One appointment includes supervision of small laboratory workshop; experience of precision engineering and instrument making essential.

Applicants for second appointment should have research experience in physics laboratory, preferably with knowledge of vacuum technique and electronics.

Apply in writing to Manager, Associated Electrical Industries Ltd., Aldermaston Court, Aldermaston, Nr. Reading, Berks.

Qualified Junior Physicist required for experimental work on cathode-ray tubes and allied vacuum tubes. Age 21–28. Previous experience of vacuum work desirable, but not essential. Write, stating age, experience and salary required to Cinema-Television Ltd., Worsley Bridge Road, Lower Sydenham, London, S.E.26.

Non-Graduate Staff (Male or Female), required in physical and chemical laboratories. The work is interesting and varied. Specialized knowledge of footwear manufacture and materials is not expected, but laboratory experience is essential. Age preferably 20–28. Initial salary according to age, qualifications and experience. Write, giving full particulars to: The Director,The British Boot, Shoe and Allied Trades Research Association, Satra House, Rockingham Road, Kettering.

A Physicist with good honours degree and some experience of research in physics (excluding electronics) is required by the **British Scientific Instrument Research Association.** The initial salary, depending on age, qualifications, and experience, will be within the range £400–£600. Apply in writing to the Director at the Association's Laboratories, "Sira," Southill, Elmstead Woods, Chislehurst, Kent.

Vacancies exist for honours graduates in physics on the staff of the **British Ceramic Research Association,** to carry out research in the Pottery Industry. Posts will be in the **Scientific Officer** (£400–£600) and **Senior Scientific Officer** (£600–£900) grades, and are subject to superannuation provisions under F.S.S.U. Applications, together with details of age, qualifications and experience, should be addressed to the Director, British Ceramic Research Association, Queens Road, Penkhull, Stoke-on-Trent.

Ceramics. Nelson Research Laboratories, **English Electric Co. Ltd.,** Stafford, invite applications from chemists and physicists for vacancies in the ceramic laboratory. Applicants should have degree or equivalent qualification, and be interested in applying scientific principles to the development of electrical and industrial ceramics. Apply, giving full details, and quoting Ref. 415D, to Central Personnel Services, English Electric Co. Ltd., 24/30 Gillingham Street, London, S.W.1.

A well-known manufacturing company has a vacancy for a **Research Physicist** to work on physical problems on process control and to supervise the work of junior physicists in the section. This is a career appointment offering very good prospects for progress. Essential qualifications are first- or second-class honours degree in physics and ability to direct the work of junior physicists. Preference will be given to candidates aged between 28 and 40 years with previous industrial experience. Starting salary within the range of £600–£800 p.a. according to experience. Apply Box No.: A.V., 10, The Institute of Physics, 47, Belgrave Square, London, S.W.1.

Laboratory Steward required at our Feltham Branch to be responsible for maintenance of a wide range of electrical and physical measuring equipment. Applicants should be well acquainted with the operation of standard measuring gear and previous experience in a physics or electrical laboratory on this type of work would be an advantage. Apply to Personnel Department, E.M.I. Engineering Development Ltd., Blyth Road, Hayes, Middlesex.

The De Havilland Aircraft Co. Ltd., Stag Lane, Edgware, have vacancies in the Central Laboratory for physicists for expanding department on research and development of creep and fatigue testing in connection with Airframe and Aero engine materials. Permanent positions and good prospects. Apply in writing to Personnel Officer, Stag Lane, Edgware, Middlesex, stating age, qualifications, experience in detail and salary required.

Physicists required for interesting work in the following fields:—

(1) Application of new materials to electronic engineering.
(2) Cathode-ray tube development.
(3) Properties of magnetic materials and applications to magnetic tape recording.
(4) Electronic engineering problems, including microwave applications.

The posts are for permanent pensionable staff and carry good salary and prospects. Applicants should have a sound theoretical training with a degree or equivalent and experience in one of these fields, and should write giving full details and quoting ED/35, to Personnel Department, E.M.I. Engineering Development Ltd., Blyth Road, Hayes, Middlesex.

Ilford Limited require a graduate in physics for work at Watford on the properties and applications of X-ray films. Age between 25–30 years. Previous experience in this field would be an advantage. Salary according to age and experience. Apply in writing to Research Director, Ilford Limited, Ilford, Essex.

The Mullard Radio Valve Company require:—

(*a*) **Senior Research Physicist** for work in connection with research and development on special valves. First- or second-class honours degree and previous experience of this type of work essential. Salary according to age and experience.

(*b*) **Three physicists** or engineers for research and development on special valves. First- or second-class honours degree and previous research experience preferred. Applicants should not be over 25 years of age. Commencing salary according to age and experience, but will not be less than £450 per annum per week of 39½ hours.

(*c*) **Six Laboratory and Technical Assistants** to assist in the production and development of valves. Inter B.Sc. or equivalent and previous experience preferred. Commencing salary not less than £325 per annum for week of 44 hours.

Write for application form, quoting reference (*a*), (*b*) or (*c*) to Personnel Officer, Mullard Radio Valve Co. Ltd., New Road, Mitcham Junction, Surrey.

Applications are invited by **Ministry of Supply** for the following posts at the Atomic Energy Research Establishment, Harwell, Nr. Didcot, Berks.

(1) **Senior Scientific Officer or Scientific Officer** for radiochemical research, much of which will be publishable. Candidates should possess a first-class honours degree in chemistry and have had post-graduate research experience in radiochemistry, physical or inorganic chemistry. Such experience is essential if application is made for a senior post. (Ref. F790/50A.)

(2) **Senior Scientific Officer or Scientific Officer** metallurgist or physical chemist for research on the corrosion and protection of metals. Candidates should possess a first- or good second-class honours degree in chemistry or metallurgy and have a sound knowledge of electrochemistry. Post-graduate research experience would be an advantage and will be essential if application is made for a senior post. (Ref. F791/50A.)

(3) **Senior Scientific Officer and Scientific Officer** physicists and mathematicians for experimental and theoretical research in connection with the design, construction and operation of atomic energy reacters. The experimental side will provide a wide range of opportunity for work with almost all types of nuclear physics machines. Candidates must have a first- or good second-class honours degree in mathematics, physics or engineering sciences or equivalent qualifications. Mathematical candidates should possess experience of the application of mathematics to technology or operational research and applicants for appointment in the senior grade must have had post-graduate research experience. If over 30 years of age and with considerable experience, candidates will be considered for appointment as Principal Scientific Officer. (Ref. A369/50A.)

Appointment will be made according to qualifications and experience on the following salary ranges:—

Principal Scientific Officer (male)	£960–£1,295 per annum.
Senior Scientific Officer (male)	£670–£860 per annum.
Scientific Officer (male)	£380–£620 per annum.

The rates for women are somewhat lower.

The posts are unestablished but carry benefits under the Federated Superannuation System for Universities. Successful candidates under the age of 31 may apply for permanent posts through Civil Service Commission Open Competitions.

Application forms obtainable from Ministry of Labour and National Service, Technical and Scientific Register, York House, Kingsway, W.C.2, quoting appropriate reference number. Closing date February 24, 1951.

DIARY OF INSTITUTE MEETINGS

Members may bring guests to any of the meetings listed below unless otherwise indicated. Individual notification has been or will be sent to the members of the Branch or Group concerned. Other members of the Institute may obtain further particulars from the Secretary of the Institute.

Saturday, February 10th (South Wales Branch), at 2.0 p.m., at University College, Swansea. **Mr. T. A. Eames, F.Inst.P.** (British Railways Research Department). **"Physics in Railway Research."**

Tuesday, February 13th (Scottish Branch), at 7.0 p.m., in the Natural Philosophy Department, The University, Glasgow. **Sir Ben Lockspeiser, F.R.S.** (Secretary of the Department of Scientific and Industrial Research). **"Scientific Problems in the D.S.I.R."**

Wednesday, February 14th (Scottish Branch), at 5.0 p.m., in the Natural Philosophy Department, Marischal College, Aberdeen. **Mr. W. D. Oliphant, F.Inst.P.** (Ferranti Ltd.). **"Vacuum Physics."**

Thursday, February 15th (Scottish Branch), at 5.0 p.m., in the Natural Philosophy Department, The University, St. Andrews. **Mr. W. D. Oliphant, F.Inst.P.** (Ferranti Ltd.). **"Vacuum Physics."**

Friday, February 16th (Industrial Radiology Group), at 6.30 p.m., at the Institute's House, 47 Belgrave Square, London, S.W.1. **Mr. W. Binks, F.Inst.P.** (National Physical Laboratory). **"Radiological Units and Protection."** Special reference will be made to the conclusions of the recent International Congress of Radiology.

Tuesday, February 20th (North-Eastern Branch), at 7.0 p.m., in the Museum Room of the Technical College, Sunderland. **Mr. J. F. Stirling, A.Inst.P.** (James A. Jobling and Co., Ltd.). **"The Annealing and Tempering of Glass."** This lecture will be illustrated by demonstrations and a film.

Tuesday, February 20th, at 5.30 p.m., at the Institute's House, 47 Belgrave Square, London, S.W.1. **Mr. G. F. Nicholson** (Royal Naval College, Greenwich). **"Electronics and the M.K.S. System of Units."**

Wednesday, February 21st (Manchester and District Branch and Education Group), at 2.15 p.m. Visit to the Physics Department of Manchester University to see the teaching side of the Department.

Tuesday, March 6th (Scottish Branch), at 7.0 p.m., in the Natural Philosophy Department, The University, Glasgow. **Mr. D. T. N. Williamson** (Ferranti Ltd.). **"High Fidelity Sound Reproduction."**

Wednesday, March 7th (Scottish Branch), at 7.0 p.m., in the Natural Philosophy Department, The University, Drummond Street, Edinburgh. **Mr. D. T. N. Williamson** (Ferranti Ltd.). **"High Fidelity Sound Reproduction."**

Saturday, March 10th (South Wales Branch), at 2.0 p.m., at University College, Cardiff. Discussion on **"Physics in School Education."**

Tuesday, March 13th (Electronics Group), at 5.20 p.m., at the Institute's House, 47 Belgrave Square, London, S.W.1. Annual General Meeting followed at 5.30 p.m. by **Dr. D. Gabor, F.Inst.P.** (Royal College of Science and Technology). **"Plasma Oscillations."**

Friday, March 16th (Industrial Radiology Group) at the Institute's House, 47 Belgrave Square, London, S.W.1. Details to be announced later.

Friday, March 16th (Manchester and District Branch), at 7.0 p.m., in the New Physics Theatre, Manchester University. **Dr. H. K. Henisch, A.Inst.P.** (Reading University). **"Crystal Valves."**

Thursday, Friday, Saturday, April 5th, 6th, 7th (Education Group), **Conference.** Details to be announced later.

Friday, Saturday, April 13th, 14th (X-Ray Analysis Group), **Conference** at Ashorne Hill, Leamington Spa. Details to be announced later.

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